PRINTER Option Type 650

OPERATING INSTRUCTIONS

PRINTER REFERENCE (option)

Read this manual carefully before you use this product and keep it handy for future reference.
For safety, please follow the instructions in this manual.

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Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual.

Please read the Safety Information in the “Copy Reference” before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

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PCL® is a registered trademark of Hewlett-Packard Company.

Document Server™ is a trademark of Ricoh Company, LTD.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

CE

Declaration of Conformity

“The Product complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.”

Caution (in case of 100BaseTX environment):

Properly shielded and grounded cables (STP) and connectors must be used for connections to host computer (and/or peripheral) in order to meet EMC Directive 89/336/EEC emission limits.

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How to Read this Manual

Symbols

In this manual, the following symbols are used:

⚠ ***WARNING:***
This symbol indicates a potentially hazardous situation that might result in death or serious injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

⚠ ***CAUTION:***
This symbol indicates a potentially hazardous situation that might result in minor or moderate injury or property damage that does not involve personal injury when you misuse the machine without following the instructions under this symbol. Be sure to read the instructions, all of which are described in the Safety Information section.

* The statements above are notes for your safety.

Important
If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation
This symbol indicates the prior knowledge or preparations required before operating.

Note
This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation
This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference
This symbol indicates a reference.

[ ]
Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

【 】
Keys built into the machine's operation panel.

Keys on the computer's keyboard.

Option List

The following are the options that you can add to enhance the basic capabilities of the printer.

- Hard Disk: Printer Hard Disk Type 450
- Memory expansion : RAM SIMM
- NIB : Network Interface Board 450-E (NIB 450-E)
- Mailbox : Mailbox CS360
  (Bridge Unit Type 460 is required when you use finisher 3000.)
- PostScript® : PostScript®3 Kit Type 650

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Manuals for this Machine

There are four manuals that describe the operational procedures separately for the operation and maintenance of the machine.

This manual, the Printer Reference, contains detailed instructions for using this machine as a printer.

To ensure safe and efficient operation of the machine, all users should read and follow the instructions contained in the following manuals.

❖ **System Settings**
Describes the procedures and functions for adjusting the settings and defaults of this machine for copier.

❖ **Copy Reference**
Describes the procedures and functions for using this machine as a copier.

❖ **Printer Reference (This Manual)**
Describes the system settings, procedures and functions for using this machine as a printer.

❖ **Document Server Reference**
Describes the procedures and functions for using this machine as a document server.

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Requirements

Requirements

Before using this machine you must make sure that all the environmental and electrical requirements have been met. Connect the machine to your host computer using the parallel port, optional Network Interface Board 450-E (NIB 450-E), or both.

Make sure that all the cables, connectors, and electrical outlets necessary to attach the machine to your host computer or network are present.

Reference

For further information on using the parallel port. ⇒ P.5 *"Connecting the Machine"*

For information on using a network. ⇒ P.5 *"Connecting the Machine"*

Parallel Cable Requirements

Connect the machine to your host computer using a parallel port. This machine does not provide the parallel cable to connect the machine to the host computer.

The machine's parallel connection is a standard bi-directional interface. It requires a standard 36-pin parallel cable compliant with IEEE 1284 and a parallel port available on the host computer.

Note

❒ Do not use a parallel cable more than 3 meters (10 feet) long.

Network Connections

Optional Network Interface Board 450-E (NIB 450-E) can be installed to allow direct connection to an Ethernet network.

The Ethernet card supports 10BaseT or 100BaseTX connections.

You can use the machine in a network environment as follows.

- Using the appropriate network management software and printer driver.
- Attaching the machine to a networked computer set up as a server.

Client Windows 3.1x, 95, 98, NT 4.0, Macintosh (required PostScript®3 Kit Type 650)
Driver PCL 6/5e , PostScript®
File Server Netware 3.x , Netware 4.x
Protocol IPX/SPX, TCP/IP , AppleTalk

In a mixed network environment, the protocol automatically switches among network protocols.

Reference

Refer to the configuration guide that comes with the Network Interface Board 450-E (NIB 450-E) for more information on installing.

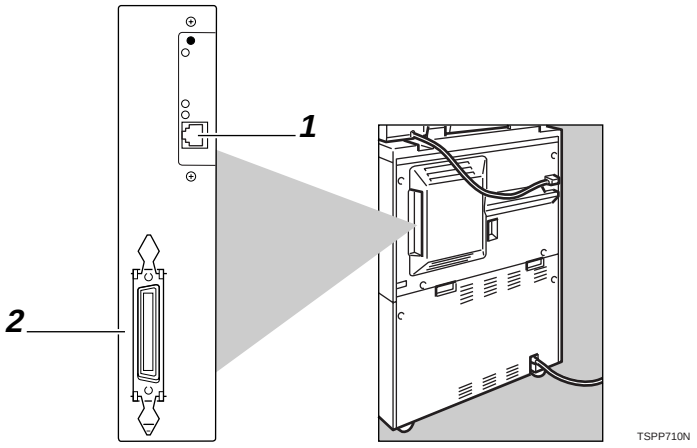
For information on resolving network connection problems. ⇒ P.53 *"Troubleshooting"*

Note

❒ Consult your Network Administrator before connecting your machine to a network.

Connecting the Machine

Make sure the shape and the position of the connector are as shown in the illustration.



1. **10BaseT / 100BaseTX**

2. **Parallel Port**

Connecting the Machine to the Host Using the Parallel Cable

Connect the machine to the host computer using a parallel cable compliant with IEEE 1284 (supplied by you).

Follow these steps to connect the machine to your host computer:

1 **Make sure you have the correct cable.**

2 **Make sure both the machine and the host computer are turned off.**

3 **Plug the 36-pin end of the parallel cable into the parallel port at the back on the right side cover of the machine.**

4 **Squeeze the wire clips on each side of the connector together until they snap into place. The clips hold the cable securely in place.**

5 **Plug the other end of the parallel cable into the computer's parallel port.**

Connecting the Machine Using the Network Interface Board 450-E (NIB 450-E)

Connect the machine using the Network Interface Board 450-E (NIB 450-E).

Follow these steps to connect the machine.

1. **Make sure you have a correct cable.**
2. **Make sure the machine is turned off.**
3. **Plug the end of the network interface cable into the 10BaseT/100BaseTX port at the back on the right side cover of the machine.**
4. **Plug the other end of the cable into the network.**

Note

- ❒ You should confirm that the cable is connected to the 10BaseT/100BaseTX port.
- ❒ In case of 100BaseTX environment, properly shielded and grounded cable (STP) must be used for connection to host computer (and/or HUB) in order to meet FCC and EMC Directive 89/336/EEC emission limits.

2. Making Adjustments with the Operation Panel

This section is for the maintenance operators.

The User Tools set the default settings, which are divided into four menu items; System Settings, Copy Features, Printer Features, and Document Server Setting. This section deals with the information on adjusting the printer settings using the System Settings and the Printer Features menus.

Note

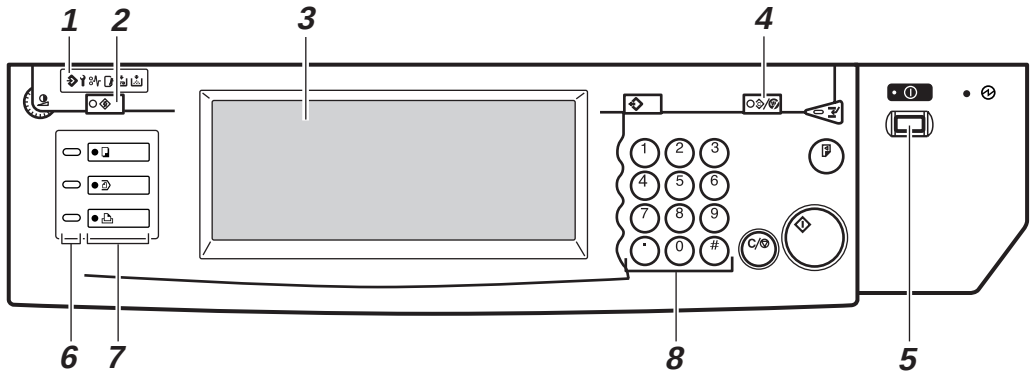
❒ After using the user tools, be sure to return to Printer mode. The settings are not canceled even if the operation switch is turned off or the **【Clear Modes/Energy Saver】** key is pressed.

❒ Function names displayed in a faint font become available when the machine is upgraded.

Reference

For information on adjusting the Copy and the Document Server settings. ⇒ Refer to the "Copy Reference" , the "Document Server Reference" or the "System Settings".

Operation Panel



1. Data In indicator

Shows if the print job is being sent from the host computer.

If the indicator is blinking, the job is being sent.

If the indicator stays on, there is the data to be printed out.

2. 【User Tools/Counter】 key

❖ **User Tools**

Press to change the default settings and conditions to meet your requirements.

⇒ P.11 *"Adjusting Printer Features"*, P.23 *"Adjusting System Settings"*

❖ **Counter**

Press to check or print the total number of prints and copies made.

3. Panel Display

Shows the operation status, error messages, and function menus.

4. 【Clear Modes/Energy Saver】 key

Press this key for about 1 second to switch to and from Energy Saver mode.

5. Operation Switch

Press this switch to turn the power on. (the On indicator lights up). To turn the power off, press this switch again (the On indicator goes off).

6. Function Status indicators

These indicators show the status of each function.

❖ **Green**

Indicates the function is working.

❖ **Red**

Indicates the function is interrupted because of errors.

Press the Function key to switch the panel display and check the error message.

7. Function keys

Press to change functions (Copy, Printer, Document Server) shown on the panel display. To use the printer function, press the 【Printer】 key.

8. Number Keys

Use these keys to enter a numeric value.

Panel Display

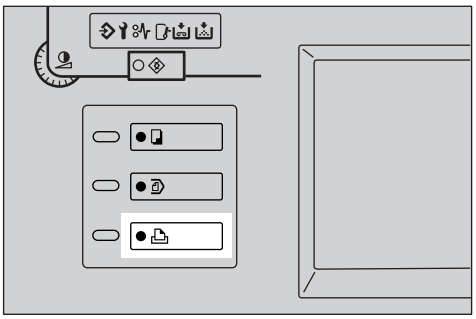
The panel display shows operational status, error messages, and function menus.

Important

❒ Do not apply a strong shock or force of about 30 N (about 3 kgf) or more to the panel display. Otherwise, the display might be damaged.

Printer

- Press the 【Printer】 key on the operational panel.

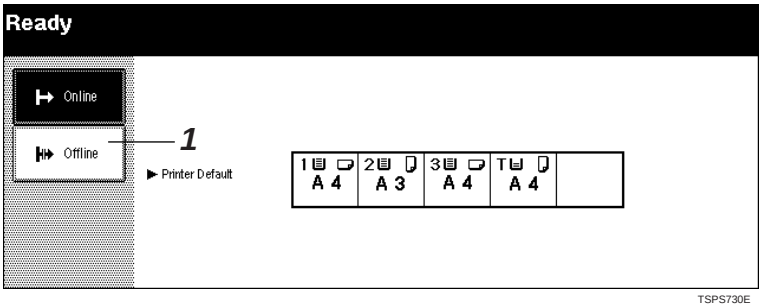


TSPS720E

Online and Offline

❖ **Online**

The printer is ready to make a print.



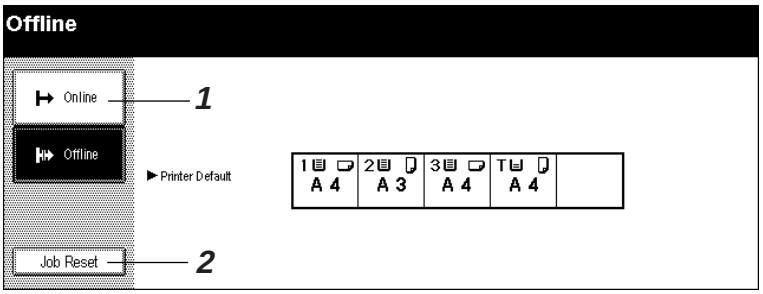
TSPS730E

1. **[Offline] key**

Touch this key to change into Offline mode.

❖ **Offline**

The printer is Offline.



1. **[Online] key**

Touch this key to change into Online mode.

2. **[Job Reset] key**

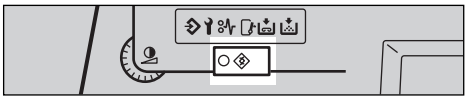
Touch this key to cancel print jobs.

Adjusting Printer Features

Accessing the Printer Features

1 **Press the [User Tools/Counter] key.**

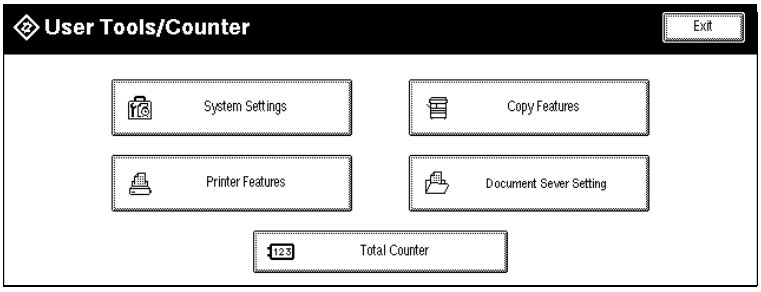
The User Tools main menu appears.



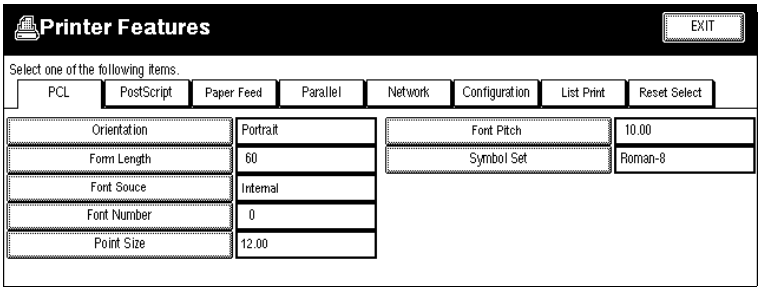
TSPS040E

2 **Touch the [Printer Features] key on the panel display.**

The Printer Features menu appears.



3 **Search for the desired menu and touch the key.**



4 **Change the settings by following the instructions on the panel display. Then touch the [OK] key.**

⇒ P.16 *"Printer Features Parameters"*

Note

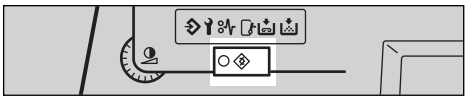
❒ **[OK]**: Touch to set the new settings and return to the previous menu.

❒ **[Cancel]**: Touch to return to the previous menu without changing any setting.

Exiting from User Tools

1 **After changing the user tools settings, go back to the User Tools main menu.**

2 **Press the 【User Tools/Counter】 key.**



TSPS040E

Note

❒ You can also exit from user tools by touching the **[Exit]** key on the User Tools main menu.

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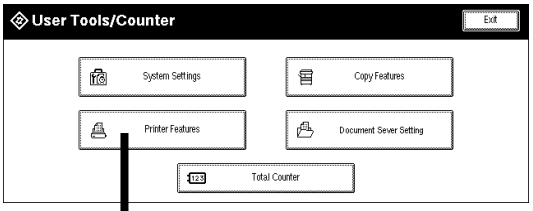
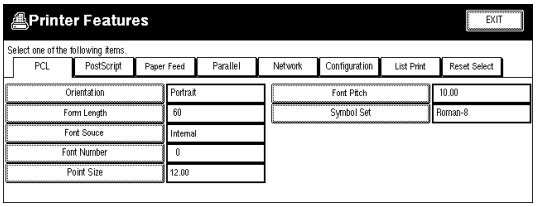
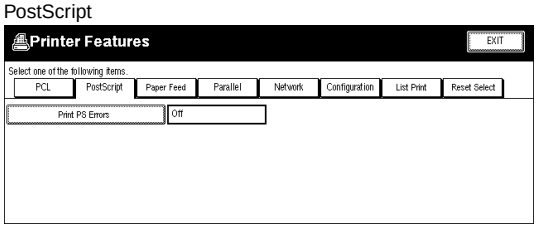
Printer Features Menu



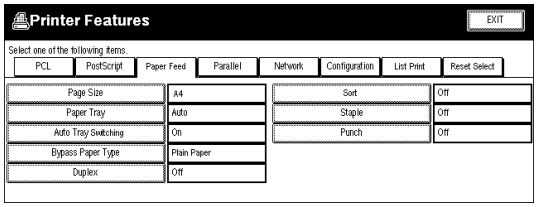
PCL



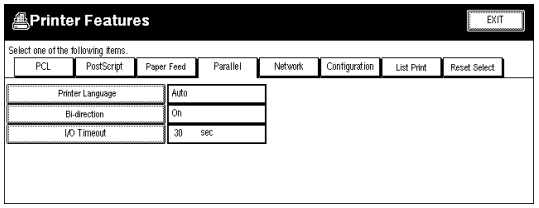
PostScript



Paper Feed



Parallel



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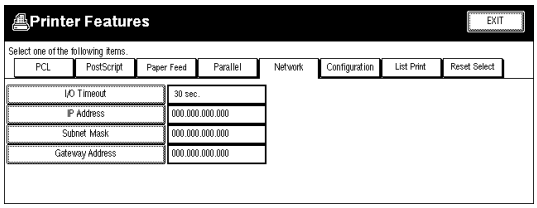
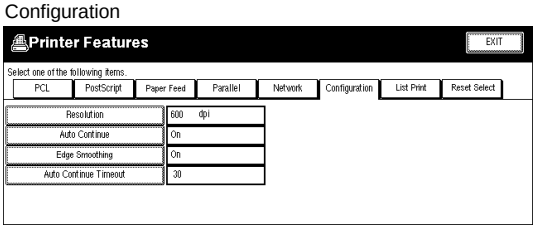
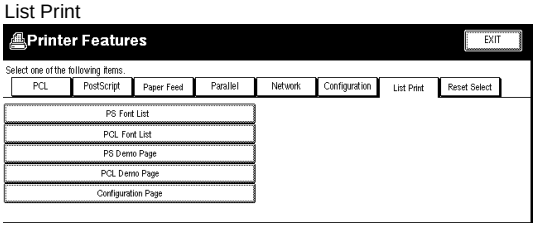
Network



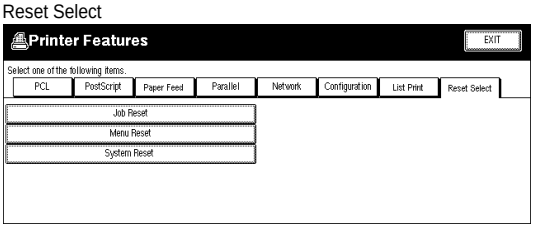
Configuration



List Print



Reset Select



TSPS760E

Printer Features Parameters

PCL

Menu	Description
Orientation	You can specify the page orientation: • Portrait • Landscape **Note** ❒ Default: *Portrait*
Form Length	You can specify the number of lines per page: 5 to 128 **Note** ❒ The default settings depend on the paper size. ❒ Default: *64 (A4)* ❒ Default: *60 ($8^1/_2 \times 11$)*
Font Source	You can specify the location of the default font: • Internal Specifies that you want to use the resident font as the default font. • Soft Specifies that you want to use the font downloaded from the host machine as the default font. **Note** ❒ Default: *Internal*
Font Number	You can specify the value for the default font you want to use: 0 to 999 **Note** ❒ Default: *0*
Point Size	You can specify the value for the point size you want to use for the selected font in increments of 0.25: 4.00 to 999.75 **Note** ❒ Default: *12.00* When an incorrect size is entered, it blinks for about 2 seconds. Enter the correct size at that time.

Menu	Description
Font Pitch	You can specify the number of characters per inch for the selected font in increments of 0.01: 0.44 to 99.99 **Note** ❒ Default: *10.00*
Symbol Set	You can specify the set of print characters for the selected font. Search for the desired font among the options shown in the 3 screens. Roman-8, Win L1, Win L2, Win L5, Win Baltic, Win 3.0, Legal, ISO L1, ISO L2, ISO L5, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, PC-8, PC-850, PC-852, PC-1004, PC-8 D/N, PC-8TK, VN Math, VN US, VN Intel, MS Publ, Pifont, Desktop, Math-8, PS Math, PS Text, MC Text **Note** ❒ Default: *Roman-8*

PostScript®

Menu	Description
Print PS Errors	You can specify whether the PostScript® Error Report should be printed: • Off • On **Note** ❒ Default: *Off*

Paper Feed

Menu	Description
Page Size	You can specify the page size when the page size is not specified by the application. A3, JIS B4, A4, JIS B5, A5, A6, 11 × 17, $8^1/_2 \times 14$, $8^1/_2 \times 13$, $8^1/_4 \times 13$, 8 × 13, $8^1/_2 \times 11$, $7^1/_4 \times 10^1/_2$, $5^1/_2 \times 8^1/_2$ **Note** ❒ Default (Metric Version): *A4* ❒ Default (Inch Version): *$8^1/_2 \times 11$*

Menu	Description
Tray Priority	You can specify the input paper tray. Only the installed trays appear on the panel display. Auto, LCT, Bypass, Tray1, Tray2, Tray3 **Note** ❒ Default: *Auto*
Auto Tray Switching	You can specify whether the Auto Tray Switching is On. When the Auto Tray Switching is On, and the current paper tray becomes empty during a print job, the machine automatically changes the paper tray to the one that contains the same paper size and orientation: • Off • On **Note** ❒ Default: *On*
Bypass Paper Type	You can specify the type of paper in the Bypass Tray: • Plain Paper • OHP(Transparency) • Thick Paper **Note** ❒ Default: *Plain Paper*
Duplex	You can specify whether you want to print on both sides of each page. If so, you can also specify the orientation of paper. • Off • Long Edge Binding • Short Edge Binding **Note** ❒ Default: *Off*

Menu	Description
Sort	You can specify whether you want to collate the output. If so, you can also specify the printing order. • Off • Offset Sort • Rotate Sort **Note** ❒ Default: *Off*
Staple	You can specify whether you want to staple the output. If so, you can also specify the stapling position among the options shown in the 2 screens. Off, Left Slant, Left Vert., Left Horiz., Left 2, Right Slant, Right Vert., Right Horiz., Right 2, Top 2, Left Slant, Left Vert., Left Horiz., Left 2, Right Slant, Right Vert., Right Horiz., Right 2, Top 2 **Note** ❒ Default: *Off*
Punch	You can specify whether you want to punch the output for filing. If so, you can also specify the punching position. Off, Left Portrait, Right Portrait, Top Portrait, Left Landscape, Right Landscape, Top Landscape **Note** ❒ Default: *Off*
Mailbox Priority	You can specify to which bins print out should be delivered: 1 to 9 **Note** ❒ Default: *1*

Parallel

Menu	Description
Printer Language	You can specify the page description language for print jobs received through the parallel port: • Auto • PCL • PostScript **Note** ❒ Default: *Auto*
Bi-direction	You can specify whether bi-directional communication between this machine and the host computer is enable: • Off • On **Note** ❒ Default: *On*
I/O Timeout	You can specify how many seconds to wait until an incomplete print job should end, and the next port in the polling sequence should be set in increments of 1: 5–300 sec. **Note** ❒ Default: *30 sec.*

Network

Menu	Description
I/O Timeout	You can specify how many seconds to wait until an incomplete print job should end, and the next port in the polling sequence should be set in increments of 1: 5–300 sec. **Note** ❒ Default: *30 sec.*
IP Address	You can specify the IP Address. **Note** ❒ Default: *All zero*

Menu	Description
Subnet Mask	You can specify the Subnet Mask. **Note** ❒ Default: *All zero*
Gateway Address	You can specify the Gateway Address. **Note** ❒ Default: *All zero*

Configuration

Menu	Description
Resolution	You can specify the print resolution in dots per inch: • 300 dpi • 600 dpi **Note** ❒ Default: *600 dpi*
Auto Continue	You can specify whether the Auto Continue feature is enabled. When it is On, printing continues after a system error occurs: • Off • On **Note** ❒ When it is On, and certain types of error occur, the current job might be canceled, and the machine automatically resumes the next job. ❒ Default: *On*
Edge Smoothing	You can specify whether the Edge Smoothing feature is enabled: • Off • On **Note** ❒ Default: *On*
Auto Continue Timeout	You can specify how many seconds to wait until the Auto Continue feature should end in increments of 1: 5-300 sec. **Note** ❒ Default: *30 sec.*

List Print

Menu	Description
PS Font List	You can print a list of installed PS fonts.
PCL Font List	You can print a list of installed PCL fonts.
PS Demo Page	You can print a PS Demo Page.
PCL Demo Page	You can print a PCL Demo Page.
Configuration Page	You can print a page describing the printer configuration.

Reset Select

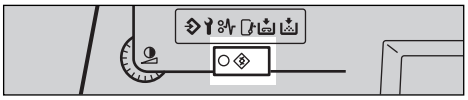
Menu	Description
Job Reset	You can cancel the print job currently being processed.
Menu Reset	You can cancel the print job and restore some of the menu parameters to their factory defaults. **Note** ❒ The following parameters don't change back to their factory defaults: • Bi-direction • TCP/IP Settings
System Reset	You can reset the system.

Adjusting System Settings

Accessing the System Settings

1 **Press the [User Tools/Counter] key.**

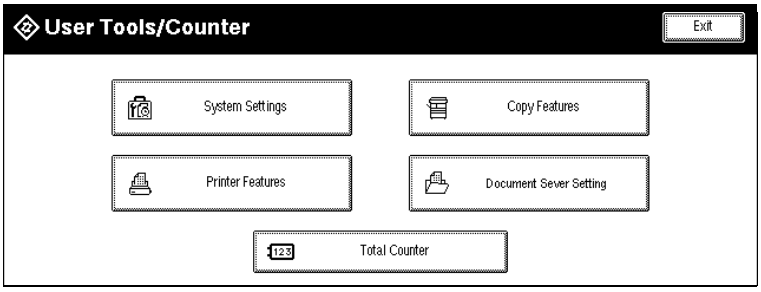
The User Tools main menu appears.



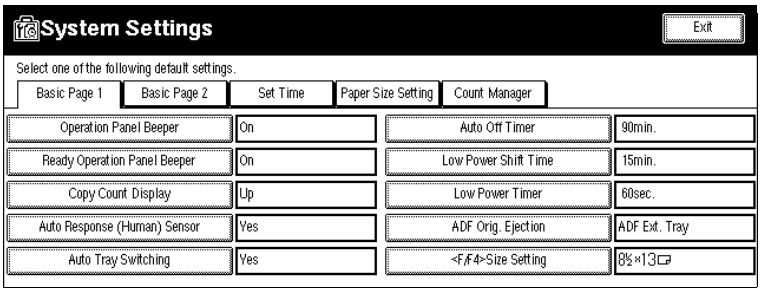
TSPS040E

2 **Touch the [System Settings] key on the panel display.**

The System Settings menu appears.



3 **Search for the desired menu and touch the key.**



4 **Change the settings by following the instructions on the panel display. Then touch the [OK] key.**

⇒ P.26 *"System Settings Parameters"*

Note

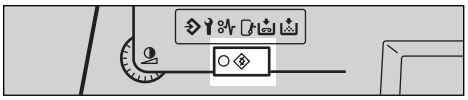
❒ **[OK]**: Touch to set the new settings and return to the previous menu.

❒ **[Cancel]**: Touch to return to the previous menu without changing any setting.

Exiting from User Tools

1 **After changing the user tools settings, go back to the User Tools main menu.**

2 **Press the 【User Tools/Counter】 key.**

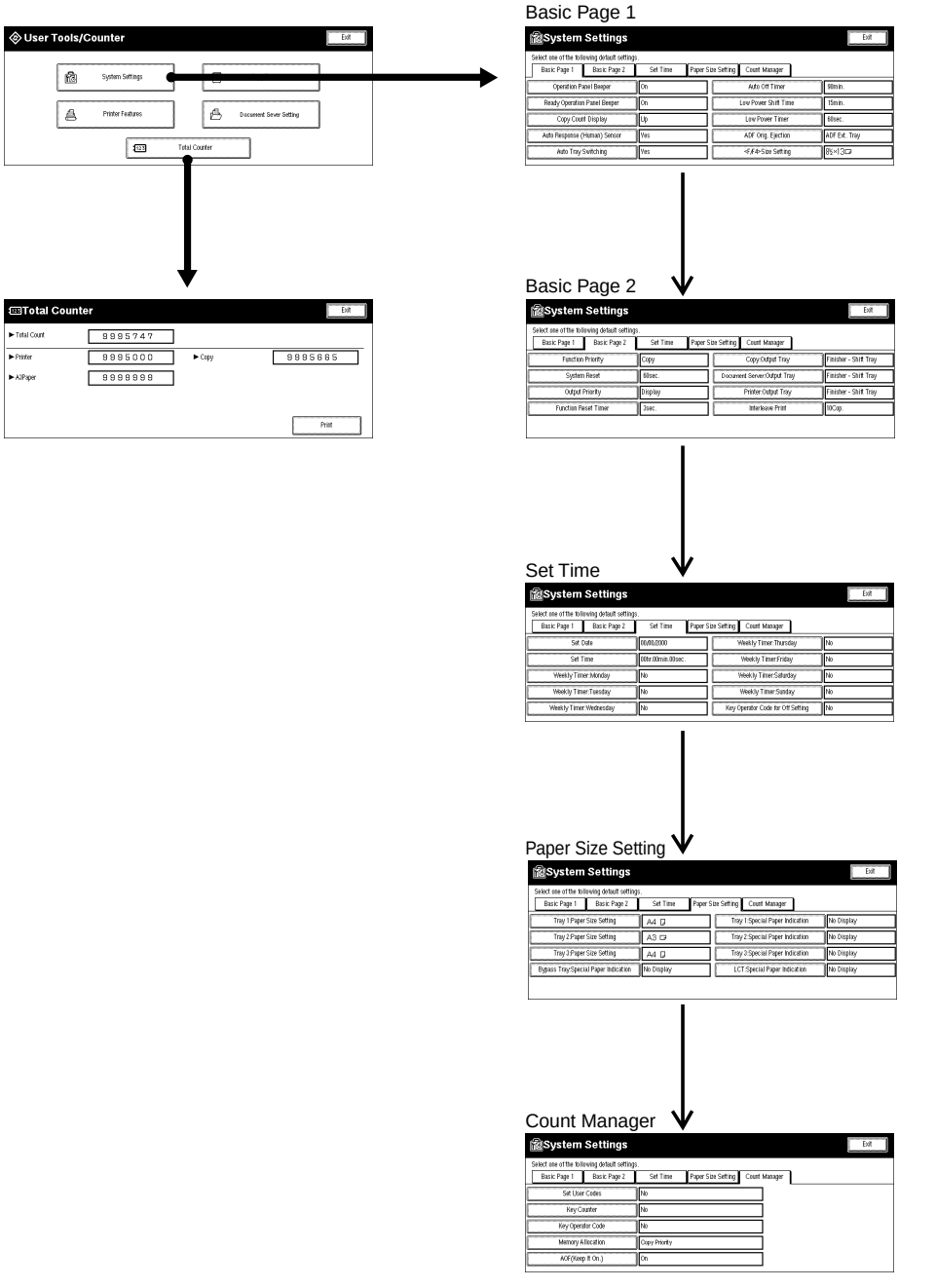


TSPS040E

Note

❒ You can also exit from user tools by touching the **[Exit]** key on the User Tools main menu.

System Settings Menu



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System Settings Parameters

This section contains the information on the parameters only used for the printer.

Reference

For information on the other parameters in the System Settings menu, refer to the "System Settings" manual.

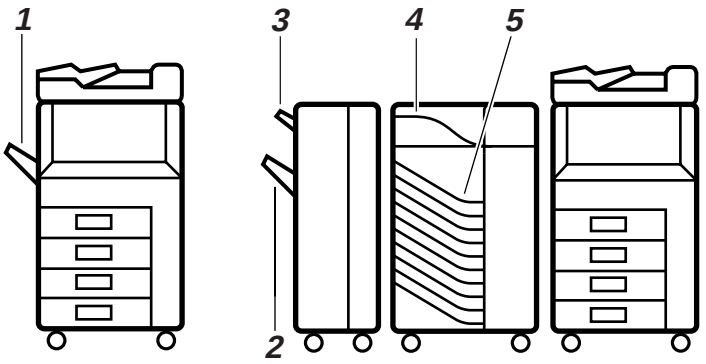
Basic Page 2

Menu	Description
Function Priority	You can specify the mode to be displayed immediately after the operation switch is turned on or the System Reset mode is turned on. • Copy • Document Server • Printer **Note** ❒ Default: *Copy*
Output Priority	Sets the print priority for each mode. • Display : Print priority is given to the mode shown on the display. • Copy : Print priority is given to the copy function. • Document Server : Print priority is given to the document server function. • Printer : Print priority is given to the printer function. • Interleave : Makes use of the Multi-access function to print jobs in the order in which they are initiated regardless of mode/function. **Note** ❒ Default: *Display* ❒ As the output from the different functions may be inconveniently placed on the same tray, it is possible to separate output trays for each function using the "Output Tray" feature.

Menu	Description
Function Reset Timer	How long the machine waits before switching to the default mode if no operation has been performed after an operation has finished. • Instant • Reset Time : 3–30 sec. **Note** ❒ Default: *Reset Time (3 sec.)* ❒ This setting does not work when the "Output Priority" is set to the "Interleave".
Copy: Output Tray	You can specify a tray which documents are delivered. **Note** ❒ Default: *Finisher-Proof tray* ❒ You can select from the External tray, Finisher-Shift tray, Finisher-Proof tray, Mailbox-Proof tray. ❒ Without the optional finisher and Mailbox installed, External tray is the only one output tray.
Document Server: Output Tray	You can specify a tray which documents are delivered. **Note** ❒ Default: *Finisher-Proof tray* ❒ You can select from the External tray, Finisher-Shift tray, Finisher-Proof tray, Mailbox-Proof tray. ❒ Without the optional finisher and Mailbox installed, External tray is the only one output tray.
Printer: Output Tray	You can specify a tray which documents are delivered. **Note** ❒ Default: *Finisher-Proof tray* ❒ You can select from the External tray, Finisher-Shift tray, Finisher-Proof tray, Mailbox-Proof tray, Mailbox (It's depends on the panel setting). ❒ Without the optional finisher and Mailbox installed, External tray is the only one output tray. ❒ The Output Tray may be different depending on the functional setting and the setting of the printer driver.

Menu	Description
Interleave Print	You can set the maximum output quantity using the interleave print when the "Output Priority" is set to the "Interleave": 1–20 (number of sheets) **Note** ❒ Default: *5* ❒ This setting may be different from your setting depending on the status of the print job.

❖ **Output Tray**



TSPH211N

1. **Copy Tray (option)**
2. **Finisher Shift Tray (option)**
3. **Finisher Proof Tray (option)**
4. **Mailbox Proof Tray (option)**
5. **Mailbox (option)**

Set Time

If a key operator code (up to 8 digits) is specified, you should enter the code when entering the Set Time mode.

Reference

Refer to “Key Operator Code” in the “System Settings” manual.

Menu	Description
Weekly Timer; Monday - Sunday	Set the times when you want the machine to turn itself on/off for each day of the week. **Important** ❒ The timers do not work if the main power switch is turned off or the power cord is unplugged. ❒ To keep the power on throughout the day, clear both of the settings specified for the "On" and "Off" timers. **Note** ❒ Enter times using the 24–hour clock (1 minute steps). ❒ You can set only the "On" or "Off" timer of the day. ❒ The timers don't turn the main power on/off. ❒ If the same time is specified both for the "On" and "Off" timers, the "On" timer is set to work, and the "Off" timer is ignored. ❒ The timers don't work when an error occurs or an error message appears in the panel display.

About Weekly Timers

The Weekly Timers allow you to restrict use of the machine to certain times of the day and week. The machine will turn the operation switch on/off at the specified times of the week.

Important

❒ The timers turn the machine to the Offline/ Online, only when the "Key Operator Code for Off Setting" is specified.

❒ If the "Key Operator Code for Off Setting" is not specified, you can print documents even when the operation switch is turned off by the timers.

❒ If the "Key Operator Code for Off Setting" is specified, you cannot print documents without entering the code when the operation switch is turned off by the timers.

Reference

Refer to "Key Operator Code for Off Setting" in the "System Settings" manual.

Count Manager

If a key operator code (up to 8 digits) is specified, you should enter the code when entering the Count Manager mode.

Reference

Refer to the "Key Operator Code" in the "System Settings" manual.

Menu	Description
Memory Allocation	You can select the Hard Disk memory allocation. Change the settings if error messages often occur. • Copy Priority • Max. Memory for Copier • Min. Memory for Copier • Max. Memory for Document Server • Document Sever Priority • Printer Priority **Note** ❒ Default: *Copy Priority* **Important** ❒ When memory allocation is changed, stored documents in the document server will be deleted. ❒ You have to print the stored documents before changing the memory allocation.

❖ **The memory allocation of each function is as follows:**

	Copy	Document Server	Printer
Copy Priority	900 MB	400 MB	200 MB
Max. Memory for Copier	1300 MB	100 MB	100 MB
Min. Memory for Copier	300 MB	800 MB	400 MB
Max. Memory for Document Sever	300 MB	1000 MB	200 MB
Document Server Priority	500 MB	800 MB	200 MB
Printer Priority	500 MB	400 MB	600 MB

3. Installing the PCL 6/5e Printer Driver

Installing the PCL 6/5e Printer Driver

Printing requires installation of a printer driver for your operating system.

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Choosing the PCL 6 or PCL 5e printer driver

This printer comes with two kinds of the PCL printer drivers. One is the PCL 6, and the other is the PCL 5e.

Generally, we recommend the PCL 6 as your first choice, for it provides better WYSIWYG (What You See Is What You Get) and higher speed than the PCL 5e.

However, some of your application software might require the installation of the PCL 5e printer driver. In this case, you can install the PCL 5e printer driver in addition to the PCL 6 printer driver.

Windows 95/98 - Installing the PCL 6/5e Printer Driver

Follow these steps to install the PCL 6/5e printer driver on your Windows 95/98 system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Win31_95".**

9 Open the folder of appropriate language.

10 Open the folder called “Disk1”.

11 Open the file titled "Setup.exe".

12 Click [OK].

13 Follow the instructions on the screen.

Windows 3.1x - Installing the PCL 6/5e Printer Driver

Important

❒ We recommend to install the PCL 5e printer driver on your Windows 3.1x system. Under Windows 3.1x system, you might get some unexpected print results with the PCL 6 printer driver.

Follow these steps to install the PCL 6/5e printer driver on your Windows 3.1x system:

1 Close all the applications that are currently running.

2 Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.

3 From the Program Manager, click [Run] from the [File] menu.

4 In the “Run” window, click [Browse].

5 Select the CD-ROM Drive in the Drives list.

6 Open the folder called “Pcl6 (or Pcl5e)”.

7 Open the folder called "Win31_95".

8 Open the folder of appropriate language.

9 Open the folder called “Disk1”.

10 Open the file titled "Setup.exe".

11 Click [OK].

12 Follow the instructions on the screen.

Windows NT 4.0 - Installing the PCL 6/5e Printer Driver

The procedures to install the PCL 6/5e printer driver on your Windows NT 4.0 System differs depending on whether one or more printer drivers have been already installed.

If there is no other printer driver installed, follow these steps.

Follow these steps to install the PCL 6/5e printer driver on your Windows NT 4.0 system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Nt4".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe".**
12. **Click [OK].**
13. **Follow the instructions on the screen.**

Uninstalling the PCL 6/5e Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Win31_95".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Unsetup.exe".**
12. **Click [OK].**
13. **Follow the instructions on the screen.**

Windows 3.1x - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
3. **From the Program Manager, click [Run] from the [File] menu.**
4. **In the "Run" window, click [Browse].**
5. **Select the CD-ROM Drive in the Drives list.**
6. **Open the folder called "Pcl6 (or Pcl5e)".**
7. **Open the folder called "Win31_95".**
8. **Open the folder of appropriate language.**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Unsetup.exe".**
11. **Click [OK].**
12. **Follow the instructions on the screen.**

Windows NT 4.0 - Uninstalling the PCL 6/5e Printer Driver

Follow these steps to uninstall the printer driver:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Pcl6 (or Pcl5e)".**
8. **Open the folder called "Nt4".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Unsetup.exe".**
12. **Click [OK].**
13. **Follow the instructions on the screen.**

4. Installing the PostScript® Printer Driver

Installing the PostScript® Printer Driver

Printing requires installation of a printer driver for your operating system.

This section provides basic procedures for installing the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on Windows 95/98 system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Ps".**
8. **Open the folder called "Win95_98".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe".**
12. **Click [OK].**
13. **Follow the instructions on the screen.**

Using the printer driver with the Adobe PageMaker for Windows 95/98

If you use the printer under Windows 95/98 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under the directory \PS\WIN95_98\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The third directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Windows 3.1x - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on your Windows 3.1x system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
3. **From the Program Manager, click [Run] from the [File] menu.**
4. **In the "Run" window, click [Browse].**
5. **Select the CD-ROM Drive in the Drives list.**
6. **Open the folder called "Ps".**
7. **Open the folder called "Win31".**
8. **Open the folder of appropriate language.**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Setup.exe".**
11. **Click [OK].**
12. **Follow the instructions on the screen.**

Using the printer driver with the Adobe PageMaker for Windows 3.1x

If you use the printer under Windows 3.1x with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under the directory \PS\WIN3.1\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The third directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Windows NT 4.0 - Installing the PostScript® Printer Driver

Follow these steps to install the PostScript® printer driver on Windows NT 4.0 system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Ps".**
8. **Open the folder called "Nt4".**
9. **Open the folder of appropriate language.**
10. **Open the folder called "Disk1".**
11. **Open the file titled "Setup.exe"**
12. **Click [OK].**
13. **Follow the instructions on the screen.**

Using the printer driver with the Adobe PageMaker for Windows NT 4.0

If you use the printer under Windows NT 4.0 with the Adobe PageMaker, you need to copy the PPD file to the PageMaker directory.

The PPD file is the file with extension ".ppd" under the directory \PS\WINNT4\ENGLISH\DISK1\, on the CD labeled Printer Drivers and Utilities for Windows/Mac. The third directory, "ENGLISH" may be substituted by appropriate language name. Copy this file to the PageMaker's directory.

For PageMaker 6 default installation, the directory is "C:\PM6\RSRC\USENGLISH\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may be different, depending on your language selection.

Macintosh - Installing the PostScript® Printer Driver

Be sure to install the appropriate driver for Macintosh. The software requires a System 7.6 or later Macintosh operating system.

Follow these steps below to install the PostScript® printer driver for Macintosh that is contained in the PostScript® option.

1. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
2. **Double click the CD icon.**
3. **Double click a folder of appropriate language.**
4. **Double click the “installer” icon.**
5. **Follow the instructions on the screen.**

Uninstalling the PostScript® Printer Driver

This section provides basic procedures for uninstalling the printer driver. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98 - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Click [Start] on the task bar.**
2. **Point to [Settings] and click [Printers].**
3. **Select the printer you want to delete.**
4. **From the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to delete the printer driver.**

Windows 3.1x - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Open the [Control Panel].**
2. **Double click the "Printer" icon.**
3. **Select the printer you want to delete and click [Remove].**
   A confirmation dialog box appears.
4. **Click [Yes] to delete the printer.**
5. **Click [Close] to finish removing the printer driver.**

Windows NT 4.0 - Uninstalling the PostScript® Printer Driver

Follow these steps to uninstall the printer driver:

1. **Click [Start] on the task bar.**
2. **Point to [Settings] and click [Printers].**
3. **Select the printer you want to delete.**
4. **From the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to delete the printer driver.**

5. Installing the Font Manager

Installing the Font Manager

The Font Manager manages the screen fonts installed in your Windows 95/ 98/ 3.1x/ NT 4.0 system. Installing the Font Manager also installs the TrueType fonts that came with your PCL printer. This enables you to use all fonts that came with your PCL printer.

This section provides basic procedures for installing the Font Manager.

The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedure below.

Windows 95/98/NT 4.0 - Installing the Font Manager

Follow these steps to install the Font Manager on Windows 95/ 98/ NT 4.0 system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/ Mac in the CD-ROM drive.**

   If the setup menu starts automatically, follow the instructions on the screen. Otherwise, continue the step 3.
3. **Click [Start] on the task bar.**
4. **Click [Run].**
5. **In the "Run" window, click [Browse].**
6. **Select the CD-ROM Drive.**
7. **Open the folder called "Disk1".**
8. **Open the folder called "Fontman".**
9. **Open the folder called "Disk1".**
10. **Open the file titled "Setup.exe".**
11. **Click [OK].**
12. **Follow the instructions on the screen.**

Windows 3.1x - Installing the Font Manager

Follow these steps to install a Font Manager on Windows 3.1x system:

1. **Close all the applications that are currently running.**
2. **Insert the CD labeled Printer Drivers and Utilities for Windows/Mac in the CD-ROM drive.**
3. **From the Program Manager, click [Run] from the [File] menu.**
4. **In the "Run" window, click [Browse].**
5. **Select the CD-ROM Drive in the Drivers list.**
6. **Open the folder called "Fontman".**
7. **Open the folder called "Disk1".**
8. **Open the file titled "Setup.exe".**
9. **Click [OK].**
10. **Follow the instructions on the screen.**

Uninstalling the Font Manager

This section provides basic procedures for uninstalling the Font Manager. The actual procedure differs somewhat depending on your operating system.

Follow the right one of the procedures below.

Windows 95/98/NT 4.0 - Uninstalling the Font Manager

Follow these steps to uninstall the Font Manager:

1. **Click [Start] on the task bar.**
2. **Point to [Settings] and click [Control Panel].**
3. **Double click the file titled "Add/Remove Programs".**
4. **Click the [AGFA Font Manager] in the list box.**
5. **Click [Add/Remove].**
   A confirmation dialog box appears.
6. **Click [Yes].**
7. **Follow the instructions on the screen.**

Windows 3.1x - Uninstalling the Font Manager

Follow these steps to uninstall the Font Manager:

1. **Open the "AGFA Font Manager" window in the Program Manager.**
2. **Double click "unInstallShield".**
3. **Follow the instructions on the screen.**

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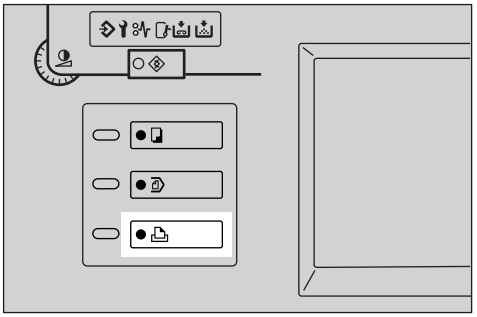
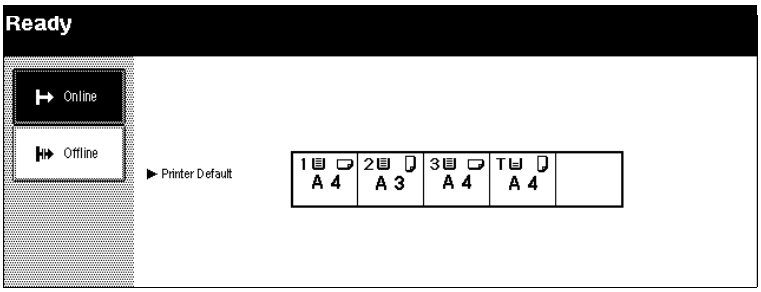
Changing a Mode

You can use this machine not only as a copier, but optionally as a printer or a document server as well. Press the 【Printer】 key to use the printer function.



TSPS720E



Limitation

❒ You cannot switch modes in any of the following cases:

- When accessing the user tools.
- During interrupt copying.

Starting a Print Job

This section provides basic procedures for starting a print job from a Windows application. The actual procedure differs somewhat depending on the application used. For full details on printing, see the documentation and on-line help that comes with your application.

Windows 95/98 - Starting a Print Job

Follow these steps to print a document. They are shown using WordPad as an example.

1. **From the [File] menu, click [Page Setup].**

2. **Specify the size, source, orientation and margins of the paper, and click [OK].**

   Note

   ❒ Use "Size" to select the paper size that matches the paper loaded in the printer's paper tray.

   ❒ Use "Source" to select **[Auto Tray Select]**.

3. **Input the text you want to print.**

4. **From the [File] menu, click [Print].**

   The "Print" dialog box appears.

5. **Make sure that the name of your machine is selected under "Name", and then click [OK] to start printing.**

   Note

   ❒ If another printer is shown under "Name", use the drop down menu to select the name of your machine.

   ❒ Clicking the "Print" dialog box's **[Properties]** displays a screen for changing the settings of the printer driver.

Windows 3.1x - Starting a Print Job

Follow these steps to print a document. They are shown using Write as an example.

1. **Use Write to create a document to print.**

2. **From the [File] menu, click [Print Setup].**

3. **Make sure that the name of your machine is selected for the "Default Printer", and specify the paper size and source that you want to use.**

   Note

   ❒ Use "Size" to select the paper size that matches the paper loaded in the printer's paper tray.

   ❒ Use "Source" to select **[Auto Tray Select]**.

4. **Click [OK].**

   The above step closes the "Print Setup" dialog box.

5. **From the [File] menu, click [Print].**

   The "Print" dialog box appears.

   Note

   ❒ Click the "Print" dialog box's **[Setup]** button to open the printer driver screen to change the printer setup, and specify the number and the range of pages to be printed.

6. **Make sure that the name of your machine is selected under [Printer Name], and then click [OK] to start printing.**

   Note

   ❒ If another printer is selected, click **[Setup]** and select the name of your machine.

Windows NT 4.0 - Starting a Print Job

Follow these steps to print a document. They are shown using WordPad as an example.

1. **From the [File] menu, click [Page Setup].**

   The "Page Setup" dialog box appears.

2. **Specify the size, source, orientation and margins of the paper, and click [OK].**

   Note

   ❒ Use "Size" to select the paper size that matches the paper loaded in the printer's paper tray.

   ❒ Use "Source" to select **[Auto Tray Select]**.

3. **Input the text you want to print.**

4. **From the [File] menu, click [Print].**

   The "Print" dialog box appears.

5. **Make sure that the name of your machine is selected under "Name", and then click [OK] to start printing.**

   Note

   ❒ If another printer is shown under **[Name]**, use the drop down menu to select the name of your machine.

   ❒ Clicking the "Print" dialog box's **[Properties]** button displays a screen for changing the settings of the printer driver.

Canceling a Print Job

Windows 95/98/3.1x/NT 4.0 - Canceling a Print Job

Follow these steps to cancel a print job.

1. **Press the 【Printer】 key on the machine's operational panel.**
2. **Touch the [Offline] key on the panel display.**
3. **Touch the [Job Reset] key on the panel display.**
   This clears data of the print job.
4. **Touch the [Online] key to change into Online mode.**

Note

❒ We recommend you to clear the data of print job from your host computer before canceling by the **[Job Reset]** key.

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Error & Status Messages on the Operation Panel

Messages	Description	Comments
Ready	The printer is Online and ready to make a print.	If you want to change into Offline mode, touch the **[Offline]** key.
Offline	The printer is Offline.	If you want to change into Online, touch the **[Online]**.
Please wait	The printer is warming up or processing internally.	Wait for the machine to get ready.
Network Board Firmware downloading...	The New network board firmware is being downloaded.	Wait until it is downloaded.
Empty Hole Punch receptacle.	The Punch Trash got full during the current punching job.	Punching cannot be made though the print job continues. Dump the punch trash. This message remains until the next print job begins.
Memory Error. Only 1 set can be output.	An Engine HDD error occurred during the current collate operation.	The print job can be completed with only one output copy of the document. This message remains until the next print job begins.
Add Staples.	The staples are running out during the current stapling job.	The stapling is being continued, even if this message appears. This message remains until the next print job which does not require stapling begins.
Network Board initializing...	The NIB 450-E firmware is being initialized.	Wait until it is initialized.
Going Offline.	The machine is shifting from Online to Offline.	Wait until it shifts to Offline.
The job has been reset.	The current job has been reset.	

Messages	Description	Comments
Functional Problems SC2000	A controller diagnostic error or a controller exception error occurred while the power is on.	Turn the main switch off, and then back on. If the error appears again, please call service.
Functional Problems SC2001	The printer controller has some problems on the hardware.	Even if this error occurs, other functions (Copy and Document Server) are still available.
Functional Problems SC2002	Software error.	Turn the main switch off, and then back on. If the error appears again, please call service.
Printer HDD Error. Printer HDD cannot be used.	A controller disk error is detected while the power is on.	Touch the **[Continue]** key after confirming the error, and the printer will start without the controller disk capability.
Printer HDD Error. Press [Reset] to cancel current job.	A controller disk error is detected while a macro or font is being downloaded from the host to the printer controller.	Touch the **[Reset]** key to cancel the current job. If this error often occurs , change the disk.
Parallel Communication Error.	A parallel communication error occurred during the print job via the parallel port.	Touch the **[Reset]** key to cancel the print job, and check the parallel communication settings again.
Netware failure.	Network communication is not available. Check the Network setting. An installed network card fails to correctly establish communication with the network.	Touch the **[Continue]** key and check the network settings, and the printer will start without the network capability. Even if a network card is installed, no error will occur when it isn't plugged into a network connection.

Messages	Description	Comments
Print overrun.	A print overrun occurred on a file being printed. Only part of the data on the page will be printed, and the print job is suspended.	To ignore this error, touch the **[Continue]** key, and the print job will be resumed. To cancel the print job, touch the **[Reset]** key. After a few seconds without any key touch, the print job will be canceled automatically. To print the image correctly, add memory to the machine, or reduce the resolution of the image and re-send the print job.
Memory overflow.	Memory overflow occurred during the print job. After part of the data on the page is printed, the print job is suspended. This is because the emulation language sent a file too complex for the printer to interpret with the available memory, or there isn't enough memory space to download the fonts.	To cancel the print job, touch the **[Reset]** key. After a few seconds without any key touch, the print job will be canceled automatically. To print the image correctly, add memory to the machine. This message remains until the next print job.
Printer HDD is full.	A controller disk becomes full while downloading a macro or font from the host to the printer controller.	To cancel the operation, touch the **[Reset]** key. After a few seconds without any key touch, the operation will be canceled automatically. To execute the operation correctly, clear room on the disk partition priority.
Output tray is full.	The specified output tray of the print job is full, and the print job is suspended.	Remove the output from the output tray, and the print job will be resumed automatically.

Messages	Description	Comments
*** is not available. *** ; Tray1 / Tray2 / Tray3 / LCT / Duplex Tray	Something is wrong with the specified input tray. The print job is suspended.	Touch the **[Reset]** key to cancel the current job. After a few seconds without any key touch, the print job will be canceled automatically.
*** is not set correctly. *** ; Tray1 / Tray2 / Tray3 / LCT / Duplex Tray	The specified input tray is not set correctly.	Close the specified input tray, and the print job will be resumed automatically.
Add Paper Add ### paper in ***, or press **[Reset]** to cancel current job. ### ; Page Size ▭ ▯ *** ; Tray1 / Tray2 / Tray3 / LCT	There is no paper in the specified input tray, although the paper size specified from the host and that from the panel display are the same. The print job is suspended.	Put the specified paper in the specified input tray, and the print job will be resumed automatically. Touch the **[Reset]** key to cancel the current job. After a few seconds without any key press, the print job will be canceled automatically.
Add Paper Add ### paper in ***, or press [Reset] to cancel current job. ### ; Page Size ▭ ▯ *** ; Tray1 / Bypass	The paper size specified from the host is not set in any trays, when the tray selection is set to Auto.	Put the specified paper in any of the input trays, and the print job will be resumed automatically. To continue the print job using the incorrect paper, touch the **[Continue]** key. To cancel the print job, touch the **[Reset]** key. After a few seconds without any key touch, the print job will be canceled automatically.

Messages	Description	Comments
Add Paper Add ### paper in ***, or press [Reset] to cancel current job. ### ; Page Size ▭ ▯ *** ; Tray1 / Tray2 / Tray3 / LCT	The paper size specified from the host and that from the panel display are different from the input tray for the current print job. The print job is suspended.	Put the specified paper in the specified tray and change the paper settings of the User Tools correctly, so the print job will be automatically resumed. To continue the print job using the incorrect paper, touch the **[Continue]** key. To cancel the print job, touch the **[Reset]** key. After a few seconds without any key touch, the print job will be canceled automatically.
Add Paper Add ### paper in Bypass Tray, or press [Reset] to cancel current job. ### ; Page Size ▭ ▯	No paper is detected in the Bypass Tray.	Set the specified paper in the Bypass Tray, and the print job will be resumed automatically. To cancel the print job, touch the **[Reset]** key. After a few seconds without any key touch, the print job will be canceled automatically.
Paper misfeed has interrupted Printing.	A paper misfeed occurred, and you removed all the misfed paper. The print job is interrupted.	To cancel the print job, touch the **[Reset]** key. To make the Jam recovery operation, touch the **[Continue]** key.
Paper is left in Staple Tray.	Paper will remain in the staple tray, when the stapling job is canceled or a new stapling job is started.	Remove the paper from the staple tray, and the print job will resume automatically.
Paper is left in Duplex Tray.	Paper will remain in the duplex tray, when a new duplex print job is started.	Remove the paper from the duplex tray, and the print job will resume automatically.
Please open the bypass tray.	The bypass tray is closed, when the tray selection is set to the bypass tray.	Open the bypass tray and set the paper, then the print job will resume automatically. Touch the **[Exit]** key to cancel the print job.

Messages	Description	Comments
An unformatted disk was detected. Are you sure want to format the disk?	When the power was turned on, an unformatted hard disk was detected by the controller.	To format the hard disk, touch the **[Yes]** key. To cancel formatting and turn the machine into the on-line mode, touch the **[No]** key. **Note** ❒ Usually this message appears only when the optional hard disk is installed. However, it also appears when a hard disk error occurs. In this case, turn the main switch off and then back on. If the message appears again, the hard disk needs formatting. When you format the hard disk, the font installed in the hard disk will be deleted.
Formatting the disk...	The hard disk is being formatted.	Wait until the confirmation message appears.
The disk was formatted successful. Turn machine off then on again to restart.	The hard disk has been formatted successfully.	Turn the main switch off, and then back on. The hard disk is ready to use.
The disk could not be formatted.	The hard disk has not been formatted successfully.	Turn the main switch off and back on, and then, try formatting again. If this message appears again, change the hard disk.

Machine Does not Print

Possible Cause	Solutions
Is the power on?	Turn on the machine.
Is the interface cable properly connected?	Connect the interface cable properly. If there are any connectors or screws, make sure they are fastened securely.
Are you using the correct interface cable?	Be sure to use the correct one. If the cable is damaged or worn, replace it with a new one.
Did you connect the interface cable after turning on the main switch?	Make sure to connect the interface cable before turning on the main switch.
Is your machine Online?	Bring it Online by touching the **[Online]** key.
Is the specified paper set?	Set the specified paper in any of the input trays.
Are there any error messages on the panel display?	Check the error message, and do the required action.
Does the indicator above the Printer key stay red?	Check the error message, and do the required action.
Is the Data-in Indicator blinking or lit?	If it is not, the data doesn't reach the machine. Check the printer cable connection. Also make sure that the printer port settings are correct.
Can you print a configuration page?	If you can't, check the printer cable connection. Also make sure that the printer port settings are correct.
Can you make a test print?	If you can't, your machine might be out of order. Consult your local service personnel.

Other Printing Problems

Problem	Action
Image is printed on the reverse side of the paper.	Set the paper upside down.
Multiple pages are fed through the printer at once.	Remove all the paper from the tray and fan them gently.
Paper misfeeds occur frequently.	Check the paper size settings. Use the recommended paper. Avoid using curled, folded, or wrinkled paper, perforated paper, or glossy paper.
Operation panel error message stays on after removing the misfed paper.	Paper misfeed message will remain until the front cover is opened and then closed. Open the front cover and close it.
It takes a long time for the printer to start printing.	The machine might be in Energy Saver mode or Low Power mode, which requires more time for warming up and resuming the print job. If you can't wait, change the settings of Low Pwr. Shift Time and Low Power Timer.
It takes too much time to complete the print job.	The data is so large or complex that it takes time to process it. If the Data In indicator is blinking, the data processing is being done. Just wait until it is finished.
Windows 95/98, NT 4.0 : The computer doesn't recognize the installed printer options.	If the printer is not bi-directional, specify which options you have installed using the printer driver. Refer to the HELP file of the printer driver.
Windows 3.1 : The printer can't send the print job.	The memory buffer might be full. Set the Print Manager to “Off”, or make the time-out setting longer.

Specifications

This section contains the electrical and hardware specifications for your printer, including the information on the options.

	Component	Specification
Basic printer	Resolution	600 dpi ; PCL 5e, PCL 6 (5e+XL), PostScript® 400 dpi ; PostScript® 300 dpi ; PCL 5e
	Standard Centronics-compatible	**Interface :** A standard 36-pin printer cable and a parallel port on the host computer. **Note** ❒ Do not use a parallel cable that is longer than 10 feet (3 meters).
		Centronics : Bi-directional parallel port (IEEE 1284 compliant)
	Page description language	PCL 5e , PCL 6 (5e+XL) , PostScript® Level 3
	Fonts	PCL 45 Font sets , PS 136 Font sets
	Hard Disk	**Storage capacity :** 1.6GB
	Memory	**Standard :** 8 MB **Optional DRAM SIMM module :** Up to 72 MB

	Component	Specification
Options	Mailbox	**Weight :** 37 kg , 82 lb
		Dimension (W×D×H): 600 × 545 × 980 mm 2.75" × 3.9" × 0.3"
		Number of trays : 9 bins , 1 Proof Tray
		Paper weight : Bin : 60 to 90 g/m^2 , 16 to 24 lb Proof: 52 to 157 g/m^2 , 14 to 42 lb
		Paper capacity : Bin: 100 sheets per tray (A4 ▯, 8$^1/_2$"×11" ▯, 80 g/m^2) / 70 sheets per tray (Others) Proof: 500 sheets per tray (A4 ▯, 8$^1/_2$"×11" ▯, 80 g/m^2) / 300 sheets per tray (Others)
		Power consumption : 48 W
	Network	**Topology :** Ethernet , 10BaseT/100BaseTX
		Protocol : IPX/SPX, TCP/IP, AppleTalk

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PRINTER REFERE

PRINTER Option Type 650 OPERATING INSTRUCTIONS

PRINTER Option Type 650 OPERATING INSTRUCTIONS

e Safety Information in the “Copy Reference” before using this machine. It contains im-
tion related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

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might not be available in some countries. For details, please contact your local dealer.

Declaration of Conformity

“The Product complies with the requirements of the EMC Directive 89/336/E
Directive 73/23/EEC.”

Caution (in case of 100BaseTX environment):

Properly shielded and grounded cables (STP) and connectors must be used
computer (and/or peripheral) in order to meet EMC Directive 89/336/EEC em